

Chapter 2 The Chemistry of Life

Section Review 2-3

Reviewing Key Concepts

Identifying *On the lines provided, identify each statement as describing carbohydrates, lipids, nucleic acids, or proteins.*

- _____ 1. the main source of energy for living things
- _____ 2. help carry out chemical reactions
- _____ 3. important parts of biological membranes
- _____ 4. contain hydrogen, oxygen, nitrogen, phosphorus, and carbon
- _____ 5. transport substances in and out of cells
- _____ 6. composed of amino acids
- _____ 7. sugar and starches
- _____ 8. store and transmit hereditary information

Completion *On the lines provided, complete the following sentences.*

9. Lipids are made up of fatty acids and _____.
10. Glucose, galactose, and fructose are carbohydrates called _____.
11. The two basic kinds of nucleic acids are _____ and _____.
12. _____ are polymers of amino acids.
13. A fatty acid with the maximum number of hydrogen atoms possible is _____.

Reviewing Key Skills

14. **Applying Concepts** No other element can form the amount and variety of molecules that carbon can form. What characteristics does carbon have that explain this characteristic?

15. **Comparing and Contrasting** Plastics are synthetic, organic polymers. How are plastics similar to polysaccharides? How are they different?
